# GPS Vehicle tracker

## (GPS+GSM+SMS/GPRS)

## User Manual

(Version 2.1)

（**photo 1**）

Please read this manual carefully before attempting installation and online activation. Pictures are for indication and illustration purposes only.

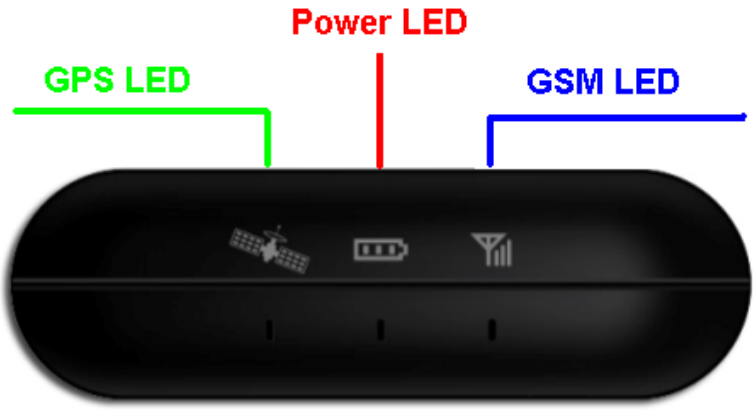
# 1：Accessories:

1) Power code
2) Relay
3) Locking bolts(4pcs)
4) String
5) 3M sticker

# 2、Specifications:

- GSM 850/900/1800/1900
- GPRS: CLASS12,TCP/IP
- Wide for voltage input range::9.5 – 39.9VDC
- Working currency：20mA@12V
- GPS Location accuracy：10m（2DRMS)
- Working environment temperature：-20～70degrees
- Working environment Humidity：20% - 80% RH
- Unit size：95（L)×45（W)×13.8（H)
- Weight：56g

# 3: Indicating Led Light




**（photo 2）**

## 3.1 Red Led-( Power status indicator)

| Led Status | Meaning |
|---|---|
| Quick Flashing | Working normally (working by backup car battery） |
| Slow Flashing | Working normally (working under battery of device) the device will change to work by own battery while backup battery had been cut down. And it will alarm. |
| Continuously in dark or bright status: | Device Error |

### 3.2 Blue Led Light-( GSM status indicator)

| Led Status | Meaning |
|---|---|
| Quick Flashing | Working normally, Uploading GPRS data to platform server. |
| Slow Flashing | Working normally, Receive GSM signal normally |
| Continuously in bright status | No GSM signal |
| Continuously in Dark status | Device Error |

### 3.3 Green Led Light – (GPS status Indicator)

| Led Status | Meaning |
|---|---|
| Flashing | Working normally. GPS located. |
| Continuously in bright state | Searching GPS signal |
| Continuously in dark state | Device Error |

## 4、Features:

| No | Features | Description | BW08-A | BW08-B |
|---|---|---|---|---|
| 1 | GPS positioning | Via GPS positioning，User can track the vehicle location ,speed and routes through phone or computer. | Support | Support |
| 2 | Playback Routes | Can check the vehicle's routes and speed in recent 2 months. | Support | Support |
| 3 | Setting function via SMS | Setting function of device via SMS and check location via SMS. | Support | Support |
| 4 | ACC ignition detection | Get vehicle status via ACC ignition detection | Not support | Support |
| 5 | Voice monitor | Voice monitoring | Only mainboard support | Only mainboard support |
| 6 | Burglar alarm | When theft cut down the device power，Device will send message and call user. | Not support | Support |
| 7 | Vibration Alarm | After setting, Device will send message and call user if theft shock the car or drive the car away. | Support | Support |
| 8 | Over speed Alarm | When speed is over than the set speed, device will send message to user. | Support | Support |
| 9 | SOS Alarm | In emergency, press SOS Alarm，Device will send message and call user. | Not support | Only mainboard support |

| | | | | |
|---|---|---|---|---|
| 10 | Cut engine | User can cut engine via platform or sending message to device. Vehicle will be shut down and theft can't drive car away.( For safety considering, it will not cut engine while speed is above 20km/h) | Not support | Support |
| 11 | Over voltage protection of Car Battery storage | This device with over voltage protection. To protect the device to be not damaged, this device will cut down the backup battery when input voltage is more than 40V. | Support | Support |
| 12 | Low voltage protection of Car Battery storage | This device with low voltage protection. The car battery storage voltage is less than9.5V when user is not using the car for long time. At this time, this device will cut down the backup battery automatically to save the car power for next using. | Support | Support |
| 13 | Built-in GPS、GSM antenna | Built-in high tech of GPS、GSM antenna for easy installation. | Support | Support |
| 14 | Static state drifting protection | Most of device with static state drifting in the market，our device has applied new tech which can protect this problem nicely. | Support | Support |

# 5、Method of Installation

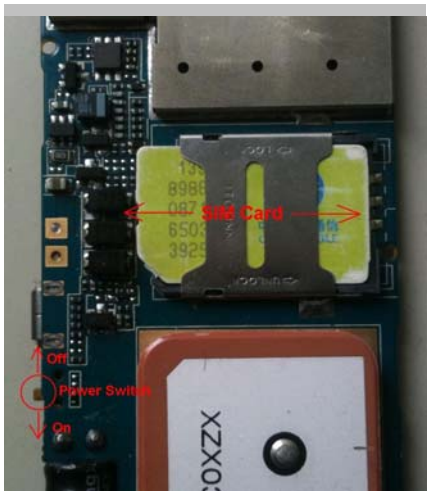
## 5.1、 Preparation before installation

**5.1.1** Open the packing box to check whether the type of device is correct and whether the accessories are included, or else please contact your distributor.

**5.1.2** Choose SIM card: each device needs to insert a GSM SIM card.
Please refer to the distributor's suggestions to choose the SIM card.

**5.1.3** Installing SIM card. (please refer below picture)

**Note:**
Please use GSM network SIM card；
Power off before installing or removing the SIM card.
The SIM card used should be enabled for GPRS.
Ensure the SIM card can send and receive SMS.




（**photo 3**）

## 5.2、 Installation

The device installation is covert. Please refer installation to an auto electrical contractor.

**5.2.1** To prevent theft of the device, it should be installed as covertly as possible. Covertly installation is suggested.

**5.2.2** Avoid placing the device close to higher power electrical devices, such as reversing radar, anti-theft device or other vehicle communication equipment;

**5.2.3** The device should be fixed into position with cable ties or wide double-side tape.

**5.2.4** The device has built-in GSM antenna and GPS antenna. During installation, please make sure the receiving side face is up, with no metal object above the device to interfere with GPS reception. The following places are suggested for installation:

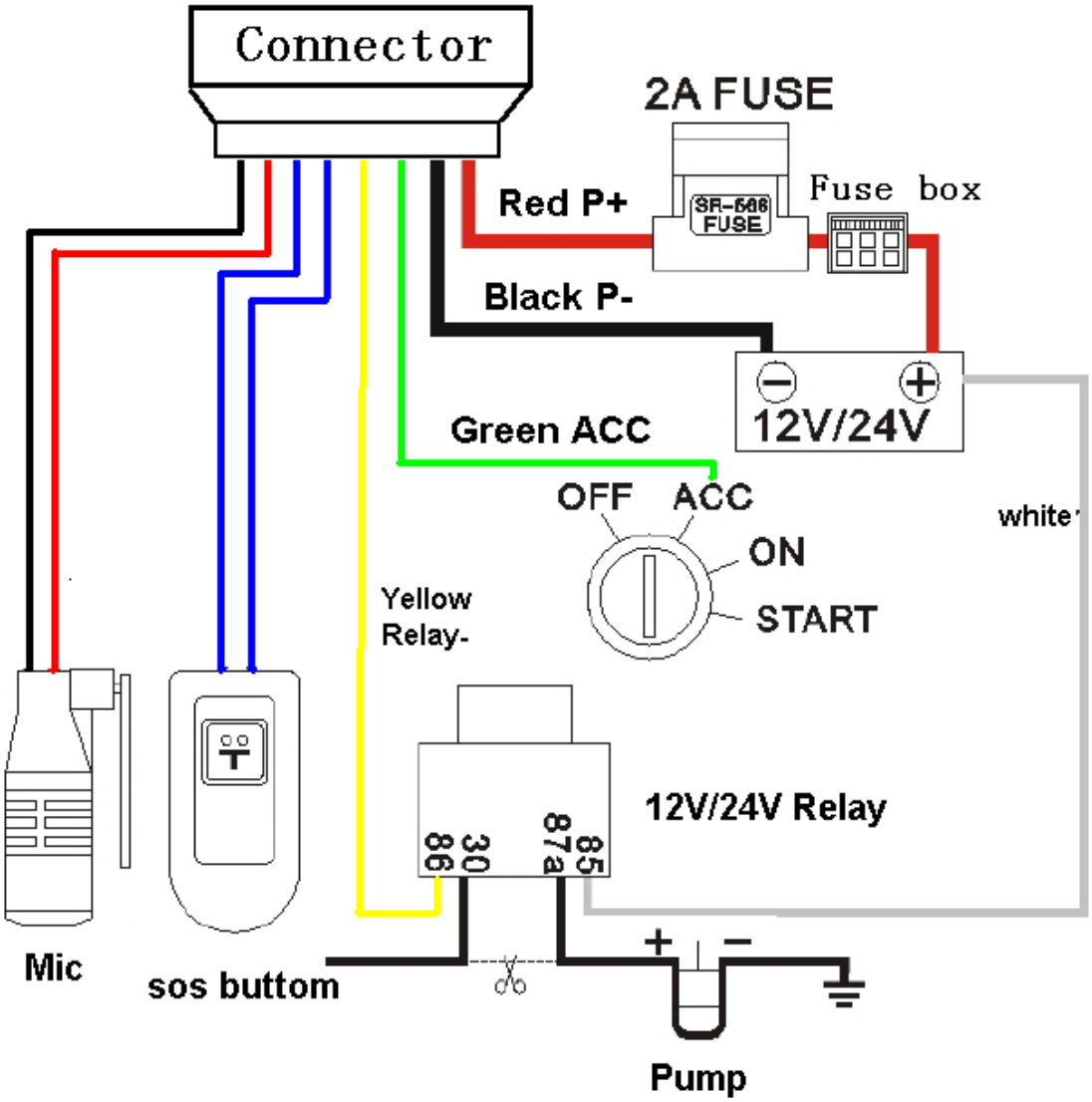
-shelter in the decorated board below the front windshield;

-shelter around the front instrument panel (non-metallic material face);

-in the decorated board below back windshield;

Notice: if the windshield is pasted with metal thermal-protective coating or heating coating, It may affect the receiving signal. In this case, please change the installation place.

## 5.3 Device wiring diagram:




（**photo 4**）

## 5.4 Operation of device:

**5.4.1** Open top cover firstly, Note top cover hasn't fixed with screws in factory
**5.4.2** Please press power switch on the up position (Powered off) Please refer picture 3.
**5.4.3** Insert SIM card to the card slot and close well.
**5.4.4** Please press power switch on the down position (Powered on). Please refer picture 3.
**5.4.5** Please close the top cover and fix it with 4 screws.
**5.4.6** Connect the power code with the interface of device.
**5.4.7** Please require professional technical to connect wires and install in the car properly.

# 6、Cautions of device wiring

## 6.1、Power code wiring:

The standard voltage is 9.5V-39.9VDC. Please use the power line which provided by the manufacturer. The red line is the positive. The black line is the negative. The negative should earth alone or link iron during installing. Do not connect it to other ground wire. And please make sure the device is powered on status. (Power switch on down position)

Red Led light will flashing while device installed correctly, GSM blue led light and GPS Green led light will flashing around 1 minutes later after getting signal.

## 6.2、Cut Engine wiring:

1，This device supports12V relay, please make sure install correctly of the power code wiring, or it can't cut engine.

2， For safety, the device will cut engine via speed is less than 20km per hour

3， Please use the device in a valid way, or you will be responsible for any invalid activities.

# 7、Message command:

User can set different kinds of function commands via sending message, including check position, cut engine, etc., Below commands and punctuation marks must be putted under English status. All commands will get auto replies according to the message sent.

**Note**: device with initial password **6666**

| No | Features | Message sent | Replies | Remarks |
|---|---|---|---|---|
| 1 | Add administrator No 1 | #Password#AAD#1#Cell No# | ADD admin account 1 ok! | For example：#6666#AAD#1#13554809219# |
| 2 | Add administrator No 2 | #Password#AAD#2#Cell No# | ADD admin account 2 ok! | |
| 3 | Delete Administrator No 1 | #Password#DAD#1# | Delete admin account 1 OK! | For example： #6666#DAD#1# #6666#DAD#2# |
| 4 | Delete Administrator No 2 | #Password#DAD#2# | Delete admin account 2 OK! | |
| 12 | View Administrator & | #Password#VA# | Display 2 administrators number and 3 authorized | For example：#6666#VA# |

| | | | | |
|---|---|---|---|---|
| | Authorized officer numbers | | numbers | |
| 13 | Setting password | #Password#CP#new password# | change password ok! | For example：#6666#CP#1234#，New password is 1234 |
| 14 | Restore password | #Password#RP# | reset password OK! | For example：#6666#RP# Restore password to factory standard. |
| 15 | Getting Location of longitude and latitude | #Password#GL# | Reply with google links of longitude and latitude | For example：#6666#GL#, will get the current longitude and latitude of device. |
| 16 | Getting Address | #Password#GA# | Reply of address | For example：#6666#GA#, will get current address of device, like: 6metres, Luohu, Shenzhen, China. |
| 17 | Setting IP address of server | #Password#IP#IP Address#Port# | #6666#IP#211.154.148.162#7000#OK! | For example：#6666#IP#211.154.148.162#7000# |
| 18 | Setting Domain name of server | #Password#WZ#Domain dame#Port# | #6666#WZ#www.szbenway.com#7000#OK! | For example：#6666#WZ# www.szbenway.com #7000#, |
| 19 | Checking IP Address | #Password#IP?# | The IP is: 211.154.148.162:7000 | For example：#6666#IP?# |
| 20 | Checking IP address after analyzing domain | #Password#WZ?# | The IP(WZ) is: 211.154.148.162:7000 | For example：#6666#WZ?# |
| 21 | Cut engine | #Password#CF# | Start to cut fule,When speed < 20 ,OK ! | For example：#6666#CF# ， only apply for administrator |
| 22 | | | Fuel cut has already been completed,OK! | Means engine cut down |
| 23 | | | Speeding now is > 20, So don't Cut Fuel, Pls wait till speed is<20 and try again ! | Means speed is >20km/hour，For safety considering, it will not cut engine, Please try again until speed is <20 |
| 24 | Start engine | #Password#OF# | Start to open fuel, OK! | For example：#6666#OF# ，Start engine only apply for administrator. |
| 25 | | | Open fuel has already been completed,OK! | Means engine started |
| 26 | Set Over speed Alarm | #Password#SOSA#120# | Set Over speed alarm,OK! | For example：#6666#SOSA#120#，It will alarm while speed more than 120km/hour |
| 27 | Cancel speed Alarm | #Password#COSA# | Close over Speed Alarm, OK! | For example：#6666##COSA#。Over speed alarm cancelled. |
| 28 | Set Vibration Alarm | #Password#SSA#level# | Set alarm level, OK! | For example：#6666#SSA#1#，Here means level set at 1, (most flexible) Standard level is 2, lowest level is 5. |
| 29 | Cancel Vibration | #Password#CSA# | Close vibration Alarm, OK! | For Example：#6666#CSA# |

| | | | | |
|---|---|---|---|---|
| | alarm | | | |
| 30 | Apply Voice monitoring | #Password#OM# | | For example：#6666#OM# |
| 31 | Cancel voice monitoring | #Password#CM# | | For example：#6666#CM# |
| 32 | Re-start device | #Password#Reset# | Start Reset System, OK! | For example：#6666#RESET#，Device will be re-started in 8-18senconds. |
| 33 | Restore factory setting | #Password#FactoryALL# | resume factory parameter,OK! | Restore all setting to factory standard, there will be no message alert sometimes as device re-started. |
| 34 | Restore factory setting except IP | #Password#Factory# | resume factory parameter,OK! | Restore settings to factory standard except IP and port datas. |

## 8、Logging on platform to track devices via Internet.

Platform Web domain：
If you are registered user arleady, you can logging in platform directly, or please contact with your distributor to open an account for you.
Please contact your distributor and get the platform user manual.
Please enter your user name and password to logging in.

## 9、Trouble shooting

**9.1.** After installing it in the first time, if device can not get connected with platform server, at this time it is “logged off” status in platform.
Please check the installation of device:

1) Check whether the connection of power-line is correct, please do not connect it with the car control line.
2) Check whether SIM card is installed correctly, please refer to the installation manual;
3) Check whether the power switch is toggled to “ON”, the switch is near USB connector.
4) Check the LEDs’ status. In normal working status, the red LED is in flashing; green LED and blue LED are both in solid bright or flashing.
5) Check whether GPS is located, if not, please drive to the open areas for positioning.

**9.2** If it is “offline” status in platform:
First of all, check the three LEDs’ status. If it is not convenient to check that，please check the SIM card status :

2、Call the SIM card number of the device to check whether you can get through;
3、Check whether the vehicle is in no GSM area, such as basement;
4、Check the GSM/GPS disconnection area, whether it is all disconnected or few of them disconnected, to make sure whether it is the fault of operator’s internet.

5、Check whether your SIM card charge is overdue;
6、Check whether the SIM card supports GPRS;
7、Check the parameter setup, whether the device IMEI number, GPRS sending interval is correct;

**9.3** If the device' GPS function is normal, but can not locate for a long time, please check whether the installation setup of device is correct:
1) Please make sure the GPS antenna face is up;
2) Please make sure there is no electromagnetic wave- absorbent object (metal) above the device, especially the thermal-protective coating on the windshield, it may affect the GPS reception of the device;

**9.4** If GPS can not receive the signals normally (there is high building around to interfere with GPS reception), please drive to the open areas for positioning. Generally, it needs 1-3minutes to receive the first coordinates.

**9.5** If GSM can not receive the signals normally, please check whether SIM card is installed correctly or there is no GSM signal at the location you are, such as basement parking, please drive to a place covered by GSM signal reception.

**9.6** When cellphone with special number receives tele- cutoff alarm sms, please make sure whether it is illegal wire cutoff, or the FUSE on power line is blown. If the FUSE in it is blown, please contact your distributor to exchange with the same model FUSE, after the internal trouble is shoot, it can be power on to work again.

# Warranty card of GPS Vehicle tracker

Special statement:

1. Specifications of this product subject to change without further notice.
2. Any change about the appearance and color is subject to the real object.
3. Warranty card applies to the product with the IMEI number listed below.
4. Please keep this card safely for after-sale service, as well as your receipt.
5. Refer to the table below for the warranty reference.

This card is the basic certificate for warranty, please fill it carefully and keep it safely.

| | | | |
|---|---|---|---|
| Name | | Phone number | |
| Address | | | |
| model | | IMEI number | |
| Date | | Invoice number | |
| Sales unit name | | | |
| Sales unit address | | | |
| Sales unit phone number | | | |
| | 1. Main engine is guaranteed for one year for non-human damage since the date of purchase.<br>2. The situations listed below are not in the scope of warranty, the user has to pay maintenance cost:<br>（1）exceed the warranty period;<br>（2）disassemble or maintain without authorization;<br>（3）immersion, break or burn of circuit board;<br>（4）damages from improper installation, use, maintenance or storage;<br>（5）damages of shell, lens or internal antenna;<br>（6）IMEI number is torn or faded;<br>（7）warranty certificate is inconsistent with product model, or the certificate is altered;<br>（8）the damages due to force majeure | | |

# Maintenance records

| Record one | | | |
|---|---|---|---|
| Maintenance unit | | Date | |
| Fault description | | | |
| Maintenance status | | | |
| IMEI number | | Serviceman | |

| Record two | | | |
|---|---|---|---|
| Maintenance unit | | Date | |
| Fault description | | | |
| Maintenance status | | | |
| IMEI number | | IMEI number | |